Index of Claims



Application No.

10/602,127

Examiner

Mark Eashoo, Ph.D.

Applicant(s)

LOOMAN ET AL.

Art Unit

1732

| <b>√</b> | Rejected |
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| - 11     | Allowed  |

(Through numeral) Cancelled Restricted

Non-Elected N Interference

Appeal A. О Objected

|          |                      |              | _                                     |   |          | _  | -        | _            |          | _  |   |          | L  |          | ١        | - |
|----------|----------------------|--------------|---------------------------------------|---|----------|----|----------|--------------|----------|----|---|----------|----|----------|----------|---|
| ſ        | Claim                |              |                                       | Date                                    |          |    |          |              |          |    |   |          |    | _        |          |   |
|          | Final                | Original     | 5/17/04                               | 77 27                                   | 10 - 2 × |    |          |              |          |    | _ |          |    |          |          |   |
| t        | 7                    | 1            | 7                                     | ╁                                       | +        | _  | +        | _            | ┝        | +  | - | ╁        | +  | _        | ╁        | _ |
| ı        | 2                    | 2            | 17                                    | =                                       | :        | _  | +        |              | ┢        | +  |   | †-       | Ť  |          | ┢        |   |
| ı        |                      | 12           | 70                                    |   | 7        | _  | Ť        | _            | Г        | 1  | _ | t        | 7  | _        | ✝        | _ |
| Ţ        | 3                    | 4            | 1                                     | =                                       | 1        |    | 1        |              |          | 1  | _ | T        | †  | _        | T        | _ |
| Ī        | 4                    | (5           | 7                                     | 1=                                      | :        |    | 1        |              | Г        | 1  |   | T        | Ť  |          |          |   |
|          | 5                    | 4<br>(5<br>6 | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | = | : [      |    | T        |              |          | T  |   | Г        | 1  |          |          |   |
|          | 345678910112         | 7            |                                       |   | : [      |    | I        |              |          | Ţ  |   | Γ        | T  |          |          |   |
| L        | 7                    | 8            | 0                                     | P                                       |          |    | L        |              |          | Ι  |   |          | Ι  |          |          |   |
| L        | 8                    | 9            | . √                                   | 2                                       | 1        |    | Ĺ        |              |          | Ι  |   | L        | Ι  |          | L        |   |
| ļ        | า                    | (10<br>11    | 7 √                                   | 2                                       | 1        |    | L        |              |          | 1  |   | L        | 1  |          |          |   |
| ŀ        | 10                   | 11           | 0                                     | =                                       | 1        |    | L        |              |          | 1  |   | L        | ⊥  |          |          |   |
|          | 1                    | 12           | V                                     | Ļ≡                                      | 4        |    | 1        |              |          | 1  |   | L        | 4  | _        | L        | 4 |
| $\vdash$ | <u>/ 2</u>           | (13          | V                                     | =                                       | 4        | _  | ╀        |              | _        | 1  |   | L.       | 1  | _        | <u> </u> | _ |
| ŀ        | 17                   | 14           | 17                                    | Ξ                                       | 4        |    | ╀        | _            |          | 4  |   | Ļ.       | 4  |          | L        | _ |
| ŀ        | 14                   | 10           | 101                                   | -                                       | ╀        | _  | ╀        | 4            | _        | ╀  | _ | _        | +  | _        |          | 4 |
| ŀ        | 14                   | 16<br>(17    | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | =                                       |          |    | ╀        | 4            | _        | +  | 4 | _        | ╀  | 4        |          | 4 |
| ŀ        | 15                   | 18           | V                                     | Ē                                       | +        |    | ╁        | ┥            |          | +- | - | ļ.,      | +  | 4        | _        | 4 |
| H        | 16                   | 18<br>19     | 1                                     | =                                       | +        | -  | ╁        | $\dashv$     |          | ╁  | - | <u> </u> | ╀  | -        | _        | ┨ |
| H        | 18                   | 20           | 0                                     | =                                       | +        | _  | ╁        | +            | _        | ╀  | - | _        | +  | -        | _        | ┨ |
| ۲        | 10                   | 21           | 1                                     | =                                       | t        | _  | ╁        | ┪            | _        | ╁  | - | _        | ╁  | $\dashv$ |          | 1 |
| h        | 18<br>19<br>23<br>21 | 21<br>(22    | <b>∮</b> ₹                            | =                                       | t        | _  | ┢        | 7            |          | ╁  | ┪ | _        | +  | ┪        |          | ł |
| T        | 21                   | 23           | o                                     | Ξ                                       | t        | -  | t−       | 1            |          | t  |   |          | ╁  | 1        |          | 1 |
| r        | zz                   | 24           | 1                                     | =                                       | t        |    | ┢        | 7            |          | †  | 1 |          | t  | 1        | _        | ١ |
| Г        |                      | 25           | N                                     |   | T        | _  | Г        | 7            | _        | T  | 7 | _        | 1  | 1        |          | 1 |
|          |                      | 28           | N                                     |   | Γ        |    |          |              |          | Τ  | 1 |          | T  | 7        |          | 1 |
| Ĺ        |                      | 27           | N                                     |   | L        |    |          |              |          |    |   | _        | L  |          |          | 1 |
| L        |                      | 28<br>29     | N                                     | L.                                      | L        |    | L        | 1            |          | L  | ┙ |          |    |          |          | l |
| L        |                      | 29           | N                                     | L.                                      | L        |    | L        | 4            |          | L  | 4 |          | L  | _        |          | l |
| L        |                      | 30           | N                                     | -                                       | L        | _  | L        | 4            | _        | Ļ  | 4 | _        | L  | 4        |          | l |
| H        |                      | 31           | ┣-                                    | <u> </u>                                | ┞        |    |          | 4            |          | _  | 4 |          | ╀  | 4        | _        | ĺ |
| H        |                      | 32<br>33     | ├                                     | _                                       | ┞        | _  | <u> </u> | +            |          | ┞  | + |          | ╀  | 4        | _        | l |
| ┝        | -                    | 34           | Н                                     |   | ┝        | -  | ⊢        | +            | _        | Ͱ  | + |          | ╀  | +        | _        | l |
| -        |                      | 35           | $\vdash$                              | _                                       | ┝        |    | -        | +            | -        | ⊢  | t |          | ╁  | +        |          | l |
| Г        |                      | 36           | П                                     |   | H        | 7  | -        | $^{\dagger}$ |          | H  | + | _        | t  | +        | ᅥ        | l |
|          |                      | 37.          | П                                     |   | Γ        | ٦  |          | †            | _        | Γ  | † |          | T  | †        |          | l |
|          |                      | 38           |                                       |   |          |    | _        | T            | -        | Γ  | † | _        | T. | †        |          |   |
|          |                      | 39           |                                       |   |          |    |          | Ι            | _        |    | T |          | Γ  | †        | $\neg$   |   |
|          |                      | 40           |                                       |   | Ĺ        | _] | _        | I            |          |    | I |          |    | Ţ        |          |   |
| _        |                      | 41           | $\vdash \downarrow$                   |   | L        | _  |          | ļ            | _        |    | 1 |          |    | I        | $\Box$   |   |
|          | _                    | 42           | $\vdash \downarrow$                   | _                                       | L        | 4  |          | 1            | 4        |    | 1 |          | _  | 1        | Ц        |   |
| _        | -                    | 43<br>44     | $\vdash$                              | _                                       |          | 4  |          | 1            | 4        |    | 1 | _        | _  | 1        | 4        |   |
|          |                      | 45           |                                       |   |          | 4  | _        | ╀            | 4        |    | + | _        | _  | +        | 4        |   |
| -        |                      | 46           | $\dashv$                              | $\dashv$                                |          | +  |          | ╀            | 4        |    | ╀ | -        | H  | +        | 4        |   |
| -        |                      | 47           |                                       | -                                       | -        | +  |          | ╀            | $\dashv$ |    | ╀ | 4        |    | ╀        | $\dashv$ |   |
| _        | -                    | 48           | +                                     | -                                       | _        | +  | _        | H            | $\dashv$ | _  | t | $\dashv$ | _  | +        | $\dashv$ |   |
| _        | 寸                    | 49           | $\dashv$                              | $\dashv$                                |          | †  |          | H            | +        |    | t | 7        |    | t        | $\dashv$ |   |
| _        | $\dashv$             | 50           | 十                                     | $\dashv$                                | _        | †  | _        | H            | 7        |    | ۲ | 1        | _  | t        | $\dashv$ |   |
|          |                      |              |                                       | _ 1                                     |          |    |          |              | - 1      |    |   | - 1      |    |          |          |   |

|  | Claim    | $\top$         |                |              |          |          | ate      |               |          |                  |
|--|----------|----------------|----------------|--------------|----------|----------|----------|---------------|----------|------------------|
|  |          |                |                | Т            | Т        | Ť        | Ĭ        | $\overline{}$ | Т        |                  |
| <del>-</del>                                     | Original |                | 1              |              |          | -        | ı        | - 1           |          |                  |
| Final  | <u> </u> |                | 1              |              |          |          | - 1      | Į             | H        | ĺ                |
| "  | Ō        |                |                | i            |          | - 1      |          |               |          | - 1              |
| -  | 51       | +-             | +-             | -            | +        | +        | $\dashv$ | $\dashv$      |          |                  |
| $\vdash$   | 1 21     | +-             | +              |              | -        | +        | -        | -             | -1       | +                |
| -  | 52<br>53 | ┿              | +-             | ┿            | +-       | +        |          | $\dashv$      | -        |                  |
|  | 53       | ╁              | ┿              | +            |          | +        | -+       | -             |          | -                |
| -  | 54       | +-             | +              |              | -        | +        | 4        |               | -        | _                |
| $\vdash$   | 55       | +              | +              | - -          | 4        | +        | -        |               | $\dashv$ | -                |
| <u> </u>   | 56       | ╄              | ╀              | -            | +        | +        | -        | -4            | _        | - -              |
| -  | 57       | -              |                | +            |          | +        | -        | 4             | _        | +-               |
| $\vdash$   | 58       | +-             | ŀ              |              | -        | +        | $\dashv$ | 4             | 4        | +                |
| <u> </u>   | 59       | +-             | ╀              |              | +        | 4        | -        | 4             | -        | _ _              |
| <u> </u>   | 60       | +-             | ╀              | - -          | +        | +        | _        | 4             | 4        |                  |
|  | 61       | -              |                | +            | 4        | 4        | 4        |               | _        |                  |
| <u> </u>   | 62       | +              | +-             | +            | +        | 4        | 4        | 4             | _        |                  |
| -  | 63       | <del> </del> - | $\perp$        | $\perp$      | -        | +        | _        | 4             | 4        | 4                |
| ļ  | 64       | $\perp$        | ╀              | +            | $\perp$  | 4        | _ .      | 4             | _        |                  |
| <u> </u>   | 65       | 4_             | L              | $\bot$       | +        | 4        | $\bot$   | 4             | 4        | $\bot$           |
| <u> </u>   | 66       | ╄              | 1              | ┷            | ┸        | 4.       | 4        | 4             | 4        |                  |
| $\vdash$   | 67       | ↓              | ↓_             | 4_           | 4.       | 1        | 4        | 4             | ┸        |                  |
| <u> </u>   | 68       | ↓_             | ╄              | 1            | 4        | 4        | _ _      | 4             | $\perp$  |                  |
| <u> </u>   | 69       | ↓_             | ╀              | ╄            | 1        | 1        | 4        | _             | 4        |                  |
| ļ  | 70       | ┺              | 1              | 1            | 1        | 1        | _        |               | $\perp$  |                  |
|  | 71       | ↓_             | L              | ┸            | 4_       | 1        | $\perp$  |               |          |                  |
| -  | 72       | <u> </u>       | L              | ┸            | ┺        | $\perp$  | $\perp$  |               | $\perp$  |                  |
|  | 73       | ↓_             | ┖              | $\perp$      | ╀        | 1        | 1        |               | ┵        |                  |
| <u> </u>   | 74       | <b>!</b> _     | Ļ.             | ╄            | ┸        | 1        | $\perp$  | $\perp$       | $\perp$  | $\perp$          |
| <u> </u>   | 75       | <u> </u>       | <u> </u>       | 1            | ļ        | 1        | $\bot$   | 4             | ┵        |                  |
| -  | 76       | ╙              | <u> </u>       | ┺            | 4        | $\perp$  | 4        | 4             | 4        |                  |
| -  | 77       | ļ              | ļ              | <b> </b>     | ↓_       | <u>↓</u> | 4        | - -           | 1        | $\bot$           |
| -  | 78       | Ŀ              | <del> </del> _ | -            | ╁        | 4        | 4        | 1             | $\perp$  |                  |
| <u> </u>   | 79       | <b>⊢</b>       | ⊢              | ╄            | ╀        | ╀        |          | 4             | 4        | $\perp$          |
| -  | 80       | <u> </u>       | _              | ╄            | ↓        | ╀        | 4        | 4             | $\perp$  | 44               |
| -  | 81       | <del> </del>   | -              | ╀            | ┼        | 4-       | +        | 4             | 4-       | 4-1              |
|  | 82       | ├-             | -              | <del> </del> | ╀        | +        | +        | +             | 4        | 4-1              |
| <b> </b>   | 83       |                | $\vdash$       | ₩            | ╁.       | +        | +        | 4             | $\bot$   | +                |
| -  | 84<br>85 | ├              | <u> </u>       | -            | ╀        | +        | +        | 4             | $\bot$   | 44               |
| -  | 86       | <u> </u>       | _              |              | $\vdash$ | +        | +        | +             | - -      | 4-4              |
| <del> </del>                                     | 87       | $\vdash$       | _              | ├            | ╀        | -        | +-       | +             | +        | $\dashv$         |
| <b>—</b>   | 88       | <u> </u>       | _              | ├            | ├-       | -        | +        | +             | +        |                  |
| <u> </u>   | 89       | Н              |                | ├-           | -        | +-       | +        | +             | +        | $\dashv$         |
| <u> </u>   | 90       | $\vdash$       |                | -            | -        | ╀        | +        | +             | +        | +1               |
| <del></del>                                      | 91       |                |                | ├-           | ├-       | ╀        | +-       | +             | +        | $\dashv$         |
| <u> </u>   | 92       |                |                | -            | -        | 1        | +-       | +             | +        |                  |
| <u> </u>   |          |                |                | ├            | $\vdash$ | $\vdash$ | -        | ╀             | +-       | $\dashv$         |
| <del> </del>                                     | 93<br>94 |                | -              | <u> </u>     | -        | ├-       | -        | +             | +        | +                |
| <u> </u>   | 95       |                |                | ⊢-           | $\vdash$ | ⊢        | +-       | +-            | +        | +                |
| <del> </del>                                     | 96       | $\dashv$       |                |              | <u> </u> | -        | +        | +             | +        | +                |
| <u> </u>   | 97       | $\dashv$       | -              | Ь—           | <u> </u> | <u> </u> | $\perp$  | ╀             | +        | <del>     </del> |
| <del>                                     </del> | 98       | $\dashv$       | 4              | <u> </u>     | <u> </u> | ⊢        | +        | ╀             | +        | +1               |
|  | 99       | -              | -              | -            | <u> </u> | ├_       | $\vdash$ | ╀             | +        | $\vdash$         |
| $\vdash$   | 100      |                | 닉              | -            | _        | <u> </u> | ⊬        | ╁             | 4        | +                |
| لسا  | 100      |                |                |              |          |          | L        | ┖             | $\perp$  |                  |

| - 1      | C      | laim       | Date     |          |          |          |          |          |          |          |              |                 |  |  |
|----------|--------|------------|----------|----------|----------|----------|----------|----------|----------|----------|--------------|-----------------|--|--|
|          | Final  | Original   |          |          |          |          | Ì        | , u.     | Ĭ        |          |              |                 |  |  |
|          | u_     | 1          |          | _        |          | 1        |          |          | L        |          |              | _               |  |  |
| ŀ        |        | 101<br>102 | ┢        | H        | ╀        | +-       | 4        |          | -        | ╀        | +-           | ╀-              |  |  |
| ŀ        |        | 103        | -        | ┝        | H        | ╫        | -        |          | -        | ╀        | ╁            | ╁               |  |  |
| ł        |        | 103        | -        | $\vdash$ | ╁        | +        | ┪        |          | ┢        | ╂╌       | +            | +-              |  |  |
| ı        | _      | 105        | -        | ┝        | ╁        | +        | ┪        | _        | ┢        | ╁        | ╁╴           | +-              |  |  |
| ı        |        | 106        | -        | -        | ╁        | +-       | 7        |          | H        | ╁        | +            | +-              |  |  |
| Ì        |        | 106<br>107 | _        | -        | T        | t        | 7        |          | $\vdash$ | t        | +-           | +               |  |  |
| ı        |        | 108        |          | _        | T        | T        | 7        |          |          | t        | +            | +               |  |  |
|          |        | 109        |          | Т        | Τ        | T        | 1        |          |          | T        | T            | 1               |  |  |
| [        |        | 110        |          |          |          |          | 1        |          |          | T        | T            | 17              |  |  |
| L        |        | 111        |          |          |          | Γ        |          |          |          | Γ        | T            | T               |  |  |
| Ļ        |        | 112        |          |          |          | L        | I        |          |          |          | Γ            |                 |  |  |
| -        |        | 113        |          |          | L        | L        | 1        |          |          | L        |              |                 |  |  |
| -        |        | 114        |          | _        | L        | 1        | 4        |          |          | L        | 1_           | Ш               |  |  |
| 1        | -      | 115<br>116 |          |          | Ļ.,      | 1        | 4        | _        |          | L        | ┺            | Ш               |  |  |
| ŀ        |        | 116        | _        |          | <u> </u> | ╀        | 4        | _        |          | L        | ↓            | $\perp$         |  |  |
| H        |        | 117        | $\dashv$ | _        |          | +        | 4        | -        |          | L        | $\perp$      | $\sqcup$        |  |  |
| ŀ        | _      | 118<br>119 |          |          | H        | ╀        | +        | 4        |          | L        | <del> </del> | Н               |  |  |
| H        | _      | 120        |          |          | -        | ╀        | +        | 4        |          | -        | ╀╌           | $\vdash$        |  |  |
| ┢        |        | 121        |          |          | H        | ╀        | +        |          |          | <u> </u> | ╁            | Н               |  |  |
| ŀ        |        | 122        | ᅱ        |          |          | ╀        | +        | -        | _        | -        | -            | Н               |  |  |
| ┢        |        | 122<br>123 | $\dashv$ |          | -        | ┢        | +        | $\dashv$ |          |          | ╁            | $\vdash$        |  |  |
| H        |        | 124        | -+       | _        |          | +        | +        | -        |          |          | <del> </del> | $\vdash \dashv$ |  |  |
| 上        |        | 124<br>125 |          |          | _        | ╁        | t        | +        |          | _        | <del> </del> | H               |  |  |
| T        |        | 126        | $\dashv$ |          |          | t        | +        | ┪        |          |          | ┢╌           | Н               |  |  |
| Γ        |        | 126<br>127 | 7        |          |          | 1-       | t        | 7        |          | _        | 1-           | Н               |  |  |
| Į        |        | 128        | T        |          |          | T        | T        | ┪        |          |          | -            | Н               |  |  |
|          |        | 129        |          |          |          | Π        | Ι        |          |          | _        |              | П               |  |  |
| L        |        | 130        | $\perp$  |          |          | L        | Ι        |          |          |          |              |                 |  |  |
| L        |        | 131<br>132 | _        | _        | _        | L        | L        | $\perp$  |          |          |              |                 |  |  |
| L        |        | 132        | 4        | 4        |          | L        | Ļ        | _        |          |          |              |                 |  |  |
| -        |        | 133        | $\dashv$ | 4        |          | L        | ╀        | 4        | 4        |          |              | Щ               |  |  |
| -        |        | 134<br>135 | +        | 4        |          | <u> </u> | ╀        | +        | 4        | _        |              | $\vdash$        |  |  |
| $\vdash$ |        | 136        | -+       | -        | _        |          | ╀        | +        | -        |          | ļi           | Н               |  |  |
| $\vdash$ |        | 137        | +        | $\dashv$ |          |          | ╁        | +        | ┥        |          | -            |                 |  |  |
| -        |        | 138        | +        | 1        |          | -        | ╁        | +        | +        | _        | $\vdash$     | -               |  |  |
| $\vdash$ |        | 139        | 7        | 7        | _        |          | ✝        | 十        | +        |          |              | $\dashv$        |  |  |
| Г        |        | 140        | $\top$   | T        |          |          | t        | +        | 1        |          |              | $\dashv$        |  |  |
|          |        | 141        | 7        | 7        |          | _        | T        | Ť        | 7        | $\neg$   |              | ┪               |  |  |
|          | $\Box$ | 142        |          | T        |          |          | Γ        | T        | ヿ        |          | Ħ            | 7               |  |  |
| L        |        | 143        | $\Box$   |          |          |          | Г        | T        | T        | Ī        |              | $\neg$          |  |  |
| L        | _      | 144        |          |          |          |          | L        | Ι        |          |          |              |                 |  |  |
| -        | _      | 145        | $\perp$  | 4        | ⅃        |          | Ĺ        | Ţ        | 1        | $\Box$   |              | · ·             |  |  |
| -        |        | 146        | $\bot$   | 1        | 4        |          | L        | 4        | 4        | $\perp$  | _[           | _]              |  |  |
| L        |        | 147        | $\perp$  | 4        | 4        |          | L        | 1        | 4        | 4        |              | _               |  |  |
| -        |        | 148        | +        | +        |          | _        | L        | 4        | 4        | 4        | _            | _               |  |  |
| -        | +      | 149<br>150 | +        | +        | -+       | _        | <u>_</u> | +        | +        | 4        | 4            | 4               |  |  |
| Ш        |        | 130        |          |          |          |          | _        | 1_       |          |          |              |                 |  |  |